

Serial No. 10/013,091
Amendment and Response to Office Action
Mailed: 18 January 2006

Remarks / Arguments

Remarks

In the Office Action, the Examiner objected to claims 1 – 22. The Examiner also rejected claims 1 – 22. By this paper, the Applicant has as amended claims 1, 11, and 15 – 16, and presented new claims 23 – 27 as well as presented arguments citing why claims should be allowable over what Examiner cites as prior art. Claims: 1 - 30 are now pending. no new matter has been introduced. In view of the following remarks, the Applicant respectfully requests reconsideration and allowance of all pending claims.

Objection to the Claims

Though the Office Action Summary, under the heading *Disposition of Claims* (item 7), shows claims 1 – 22 are objected to. Applicant has failed to find a single objection stated under the heading *Detailed Action*. Therefore, Applicant respectfully requests Examiner withdraw objections to claims 1 – 22 and consider allowance of all pending claims.

Response to Arguments

Under the heading of *Response to Arguments*, the Examiner stated: "*Applicant's [previous] arguments have been considered but are moot in view of the new ground(s) of rejection.*" Applicant notes that the Examiner's "*new ground(s) of rejection*" are essentially word for word copies of the previous rejections given in the Office Action mailed 29 June 2005, and thus Applicant feels the same arguments from the previous response still apply and should

Serial No. 10/013,091
Amendment and Response to Office Action
Mailed: 18 January 2006

not be considered unresponsive. Therefore, in duplicated grounds of rejections presented by the Examiner, the Applicant respectfully submits what are essentially duplicated arguments for reconsideration.

Claim Rejections under 35 U.S.C. § 112

Claims 1, 11, 15, and 16

The Examiner rejected to Claims 1, 11, 15, and 16 under 35 U.S.C. 112, second paragraph as indefinite. In particular, the Examiner states, "*the claims do not describe the method of how to subscribe the enriched messages.*" Further, the Examiner states, the claims do not "*describe how to enrich publishing.*"

Applicant calls attention to the claimed phrase "*enriching the messages with information from that event and/or corresponding information extracted from the central repository, thus creating enriched messages.*" (Application 10/013,091, Claim 1, 11, 15) and "*to operate as a dynamic central repository that consolidates information from across the enterprise ... to know what particular information any one of the applications needs ... the particular information enriching messages to which the applications subscribe*" (Application 10/013,091, Claim 16) Further, Applicant would like to respectfully call to the Examiner's attention Manual of Patent Examining Procedure which states "*The words of a claim must be given their 'Plain Meaning' unless they are defined in the specification.*" (USPTO MPEP section 2111.01(I)) With this in mind Applicant refers Examiner to the specification which states "*Information and updates thereof are communicated (published) from and received (subscribed) by applications to the ZLE*

Serial No. 10/013,091
Amendment and Response to Office Action
Mailed: 18 January 2006

hub by way of adapters." (Application 10/013,091, Page 4, Lines 16 – 18) and *"Publish and Subscribe -- respectively, refers to pushing data into and pulling data out of a system or system module. Pushing data involves for example any one or a combination of allocating, writing, inserting and saving data. Pulling data involves for example any or a combination of selecting, requesting, reading, and extracting data. [Pulling] and pushing data may additionally involve sending and/or receiving the data by means of messages."* (Application 10/013,081, Page 7, Lines 15 – 19)

Further, Applicant notes the term *"Publish and Subscribe"* or the corresponding *"publish/subscribe"* are known art terms describing a system where Publishers are loosely coupled with Subscribers, and needn't know of their existence. Publishers post messages to an intermediary Broker; and, Subscribers register subscriptions with that broker. Messages are sent from a publisher to a broker, i.e. *Published*, where they are classified in any of a number of methods which are beyond the scope of this application. Brokers then forward messages of a given classification to subscribers who have registered as being interested in said classification, i.e. *Subscribed*.

As support for Applicant's claim that *"Publish and Subscribe"* or *"publish/subscribe"* are known art terms in use prior to Original Application filing on 7 December 2001, following format recommended by WIPO Standard ST.14, listed in MPEP 707.05(3) (IV), Applicant cites the following:

" *"Publish and Subscribe was a document linking model introduced by Apple Computer in System 7. It extended the existing cut and paste editing model with a notification system ... "*

Serial No. 10/013,091
Amendment and Response to Office Action
Mailed: 18 January 2006

(Wikipedia [online] [retrieved 8 May 2006]. Retrieved from the Internet: <URL:
http://en.wikipedia.org/wiki/Publish_and_Subscribe>)

System 7 (codenamed Big Bang) is a version of the Mac OS, the operating system of the Apple Macintosh computer. Various versions of System 7 were in widespread use from the early 1990s up until 1997..." (Wikipedia [online] [retrieved 8 May 2006]. Retrieved from the Internet: <URL: http://en.wikipedia.org/wiki/System_7_%28Macintosh%29>)

"ColorStudio will support standard System 7 features like TrueType, publish and subscribe, Apple Events, and the soon-to-become-obnoxious balloon help." [emphasis added]
(Allen, Timothy, 'SevenBITS/ 20-May-91'. In TidBits #62 / 20-May-91 (Web publication covering the Macintosh Community) [online] [retrieved 10 May 2006]. Retrieved from the Internet: <URL: <http://www.tidbits.com/tb-issues/TidBITS-062.html>>)

The terms, "*Publish and Subscribe*" or "*publish/subscribe*", are known art terms. The terms, "*Publish and Subscribe*" or "*publish/subscribe*", were defined by Applicant both implicitly and explicitly within the application as originally filed. The terms, "*Publish and Subscribe*" or "*publish/subscribe*", were not defined by Applicant in opposition to the term definitions known in the art, The Applicant request the Examiner withdraw rejections to these claims.

Serial No. 10/013,091
Amendment and Response to Office Action
Mailed: 18 January 2006

Claim Rejections under 35 U.S.C. § 102

In the Office Action, the Examiner rejected claims 1 - 3, 5 - 8, 10 - 13, 15 - 16 and 19 - 22 as being anticipated by Stewart (US 2002/0013759). The Applicant respectfully contests these rejections below.

Claims 1, 11, and 15

The Applicant respectfully asserts that the Stewart reference cited fails to teach *"information from the plurality of events being aggregated in the central repository where the aggregated information can, in real-time be accessible and available for extraction and analysis from across the enterprise"* [emphasis added]. Stewart teaches storage in the c-hub of *"information required to configure the c-hub in order to provide support for multiple protocols within a c-space."* (Stewart, Paragraph [0150]) The reference goes on to list types of information, including *"in some instance a portion of the message itself"* [emphasis added] (Stewart, Paragraph [0150]). The Applicant asserts that a portion of the message (a single message) is not equivalent with *"information from the plurality of events being aggregated in the central repository"* and has no value in later *"extraction and analysis from across the enterprise"*.

The Examiner further cites page 13, paragraph [0139]. As page 13 does not include a paragraph [0139], Applicant assumes the examiner is referring to paragraph [0139] found on page 11. Stewart states *"the workflow server can pass messages to the c-enabler by XML, which then communicates these messages to the c-hub. Messages from the c-hub are then similarly*

Serial No. 10/013,091
Amendment and Response to Office Action
Mailed: 18 January 2006

passed by the c-enabler to the workflow server" [emphasis added] (Stewart, Paragraph [0139]). Applicant again asserts that a single message being passed between system components is not equivalent with *"information from the plurality of events being aggregated in the central repository"* and has no value in later *"extraction and analysis from across the enterprise"*.

The Examiner also cites *"The XPATH expression is evaluated against a message-context XML document generated by the XOCP filter module. It contains information extracted from the message context and the repository"* (Stewart, Paragraph [0227]). The Applicant again asserts that this is not an anticipation of the Applicant's invention because the cited reference describes a filter process used for the publishing of a single message and not a method of aggregating or analyzing the data from multiple messages. Further, no method is provided to allow information to be *"in real-time ... accessible and available for extraction and analysis from across the enterprise."* To support this, the Applicant calls attention to Stewart's teaching that XPATH filters are *"filters that are defined by an administrator and associated with a trading partner. ... When the c-hub routes a message to a trading partner with the XOCP protocol, the XPATH filter is used to examine the message context and determine whether to send the message to the trading partner or not"* [emphasis added] (Stewart, Paragraph [0227]). This statement demonstrates rather than making information accessible and extractable across the enterprise, the opposite is being done. XPATH filters are a means of limiting the information seen by a subscriber to the system, and this limit is put in place by the administrator of the system, not by the subscriber.

Serial No. 10/013,091
Amendment and Response to Office Action
Mailed: 18 January 2006

As none of the cited references cited by the examiner teaches "*information from the plurality of events being aggregated in the central repository*", nor does it teach "*enrich messages with information*," and further there is no method to enrich messages as the central repository described by the reference is simply a repository for filters and routing rules. Stewart fails to teach "consolidate[ing] (or aggregate[ing]) respective information from the plurality of events. ...Accordingly, the aggregated information can, in real-time, be accessible, and available for extraction and analysis from across the enterprise." (Application 10/013,091, Lines 24 – 29)

The Applicant therefore request the Examiner withdraw rejections to these claims.

Claims 2 and 12

The Examiner states: "*Regarding claims 2 and 12, Stewart discloses wherein the central repository operates as an information broker between applications...*" The Applicant asserts that the referenced paragraphs teach "*The c-hub maintains contextual information about interactions between trading partners*" (Stewart, Paragraph [0214]). The cited reference does not teach aggregating of information, and does not "*enrich messages with information*," and in no way could enrich messages as the central repository described by the reference is simply a repository for filters and routing rules. Stewart fails to teach "consolidat[ing] (or aggregat[ing]) respective information from the plurality of events. ...Accordingly, the aggregated information can, in real-time, be accessible, and available for extraction and analysis from across the enterprise." (Application 10/013,091, Lines 24 – 29)

Serial No. 10/013,091
Amendment and Response to Office Action
Mailed: 18 January 2006

The Applicant request the Examiner reconsiders and withdraw rejections against these claims.

Claims 3 and 21

The Examiner states: "*Regarding claims 3 and 21, Stewart discloses wherein for a particular number (N) of applications, a combined number of the published and subscribed messages can be reduced from twice that particular number (2N) to a total number of 4 or 5 messages (See [0083, 0227, 0228]).*" The Applicant, reviewing the cited paragraphs, finds Stewart fails to teach "consolidat[ing] (or aggregat[ing]) respective information from the plurality of events. ...Accordingly, the aggregated information can, in real-time, be accessible, and available for extraction and analysis from across the enterprise." (Application 10/013,091, Lines 24 - 29)

Further, information maintained in the c-hub, as described by Stewart, is limited to the routing rules for moving original messages in their unmodified format from a publisher to a subscriber. At messages are not combined, a particular number (2N) of messages would not be reduced by the methods taught by Stewart.

The Applicant requests the Examiner reconsider and withdraw rejections against these claims.

Claims 5 and 20

While Stewart does teach storing schema in a central repository, said schema is described by Stewart for "*C-hub routing and filtering features*" (Stewart, Paragraph [0219]) While filtering may reduce message counts by failing to pass some messages from the publisher to the

Serial No. 10/013,091
Amendment and Response to Office Action
Mailed: 18 January 2006

subscriber based on a pre-defined rule-set. It does not encompass aggregating information between multiple messages, storing information from those messages in a central repository, nor does it encompass enriching message content.

The Applicant requests the Examiner reconsider and withdraw rejections against these claims.

Claim 6

The Examiner rejects claim 6 stating: "*Stewart discloses wherein the applications cause the updating of aggregated information at the central repository upon a change of information in their environment. (See page 14, paragraph [0219-0220].*" The Applicant notes the citing does not discuss applications causing the updating based on environmental changes. Stewart teaches "*the repository provides a pre-defined set of entity definitions (and associated properties)...*" [emphasis added] (Stewart, Paragraph [0218]) and "*extended properties are organized ... using the c-hub administrator console*" [emphasis added] (Stewart, Paragraph [0219]). Applicant further calls attention to "*an administrator console, which allows the c-space owner or designated administrator to configure and manage services and c-spaces using a Web browser*" [emphasis added] (Stewart, Paragraph [0208]).

The Applicant requests the Examiner reconsider and withdraw rejections against these claims.

Serial No. 10/013,091
Amendment and Response to Office Action
Mailed: 18 January 2006

Claims 8 and 13

Claims 8 and 13 are directed to the central repository's bases on a database. The Examiner states that "*Stewart discloses wherein the central repository is based on a database.*", and cites paragraphs [0137 – 0139] to support this. The Applicant directs the Examiner to the above remarks concerning Claim 6 which refute the use of a database to store updated information from new events.

Claims 10

The Examiner cites paragraphs 0227 and 0228 stating that Stewart discloses messages can include extracted information that was previously published to the central repository by other applications. The Applicant wishes to call attention to the phrase "*the XPATH filter is used to examine the message context and determine whether to send the message to the trading partner or not.*" (Stewart, Paragraph [0227]) There is no teaching of modifying the message, only of deciding to forward or discard it. The only teaching of extracting message content is in generating the XML document from the message to establish the XML generated document which is matched against the XPATH filter to make the forwarding decision. Stewart does not teach storing this XML generated document in any form other than as a generic template stored in the repository at design time. (Stewart, Paragraph [0279]) Since this information is not stored, it can not be aggregated or made available for inclusion in later messages.

Serial No. 10/013,091
Amendment and Response to Office Action
Mailed: 18 January 2006

Claim 16

The Examiner states Stewart teaches "*to operate as a dynamic central repository that consolidates information from across the enterprise*". Applicant argues Stewart does not teach a "*central repository that consolidates information from across the enterprise*" but only teaches "a conversation repository for storing conversation **management data**" [emphasis added] (Stewart, Paragraph [0034]). Applicant also calls the Examiners attention to the phrases "*information enriching messages*" and "*consolidated information with information from messages published by the applications*". These limitations are not supported by the cited Stewart reference as discussed above with regards to claim 1, 2, 11, 12, and 15. The Applicant therefore requests the Examiner withdraw rejections to this claim.

Claims 19 and 22

In addition to the remarks above, claims 19 and 22 should be allowable due to their dependence on claim 16. The Applicant directs the Examiner to the remarks above concerning claim 16.

The Applicant therefore request the Examiner withdraw rejections to these claims.

Claim Rejections under 35 U.S.C. § 103

Claims 4 and 18

In the Office Action, the Examiner rejected claims 4 and 18 as being unpatentable over Stewart (US 2002/0013759), in view of Schmidt (US 2002/0026630). The Applicant respectfully traverses these rejections. As stated above under remarks regarding the 35 U.S.C. §

Serial No. 10/013,091
Amendment and Response to Office Action
Mailed: 18 January 2006

102 rejections of claims 1, 11 and 15, Stewart fails to teach or suggest aggregating data from multiple messages. This teaching is also not found in the Schmidt reference. The Applicant therefore request the Examiner withdraw rejections to these claims.

Claims 9, 14 and 17

In the Office Action, the Examiner rejected claims 9, 14, and 17 as being unpatentable over Stewart (US 2002/0013759), in view of Chandra (US 6,058,389). Examiner has relied on teaching of Stewart regarding aggregation of information from multiple messages which, as stated above under remarks regarding the 35 U.S.C. § 102 rejections of claims 1, 11 and 15, Stewart fails to teach. This teaching is also not found in the Chandra reference. The Applicant therefore request the Examiner withdraw rejections to these claims.

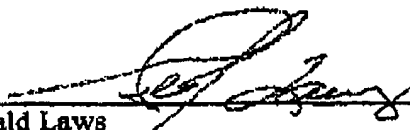
Serial No. 10/013,091
Amendment and Response to Office Action
Mailed: 18 January 2006

Conclusion

The Applicant respectfully submits that all pending claims are in condition for allowance. However, if the Examiner wishes to resolve any other issues by way of a telephone conference, the Examiner is kindly invited to contact the undersigned at the telephone number indicated below.

Respectfully submitted,

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